Chest heated ironers

CL300/1800
UL300/1800

Gas heating

Technical specifications
Installation instructions
Operating instructions
Maintenance

Instruction manual

Alliance Laundry Systems

Part No. D1510EN

FOREWORD.

This manual contains information on installation, operation and maintenance.
The operator should read this manual carefully and become familiar with the machine regulations before the machine is commissioned.
In this document we have attempted to answer any questions you may have.
For further information or explanation, please contact our after-sales department.
This machine was developed only for use in industrial surroundings.
The illustrations, drawings and text are as accurate as possible. Discrepancies may occur as a result of technical improvements or special options ordered by you. The design explanations in this manual are intended only for the user of the machine and under NO circumstances may they be disclosed to third parties.
This manual will help you get the best out of your machine.

Location of serial number plate.

Always quote the machine identification number when requesting information or ordering parts.

Machine No. plate + CE plate can be found on the front at the bottom right.

WE CAN'T GIVE ANY WARRANTY TO THE FOLLOWING ELEMENTS:

- The padding
- The feed bands.
- Chains
- Oil change.
- Transport damage.
- Components damaged by poor maintenance.
- Spare parts who are placed by a technician who is not trained or schooled by LACO.

PART 1 INSTALLATION..... 8

1.1 HANDELING OF THE MACHINE..... 8
1.2 TECHNICAL DATA AND DIMENSIONS..... 9
1.3 INSTALLATION. 10

PART 2 SERVICE INSTRUCTIONS..... 12

2.1 GENERAL..... 12
2.2 DAILY CHECKPOINTS..... 12
2.2.1 DAILY CHECKPOINTS BEFORE STARTING..... 12
2.2.2 NORMAL USE 12
2.2.3 ABNORMAL USE..... 13
2.2.4 CONTINUED RISKS WITH THE MACHINE - MEASURES TO TAKE..... 13
2.3 CONTROL PANEL..... 13
2.4 OPERATION INSTRUCTIONS 14
2.4.1 OPERATIONS INSTRUCTIONS 14
2.4.2 ADDITIONAL POINTS..... 15
2.5 SECURITY INSTRUCTIONS 15
2.6 WHAT TO DO IN EMERGENCY SITUATIONS. 17
SITUATION 5: ELECTROCUTION 17
SITUATION 6: BROKEN PIPES..... 17

PART 3: MAINTENANCE INSTRUCTIONS..... 18

3.1 MAINTENAINCE INSTRUCTIONS..... 18
3.2 TROUBLESHOOTING GUIDE..... 20
3.2.1 THE MACHINE DOES NOT REACH TEMPERATURE AFTER PRESSING THE START BUTTON. 20
3.2.2 MACHINE IS AT TEMPERATURE BUT IRONING BED DOES NOT CLOSE..... 20
3.2.3 THE IRONING BED CLOSES BUT THE ROLL DOES NOT TURN..... 21
3.2.4 ROLL SUCTION DOES NOT WORK..... 21
3.2.5 NO CONTROL VOLTAGE. 22
3.2.6 CREASES IN THE LINEN. 22
3.3 ADJUSTMENT OFF THE CONTACT. 22
3.4 DRIVE FEEDING BELTS. 23
3.4.1 M300..... 23
3.4.2 D300 23
3.5 TEMPERATURE SETTINGS. 24
3.6 HOW TO PUT IN THE LINNEN ON A M300 – D300. 25
3.7 THERMO-OIL CHANGE M300 – D300 26
3.8 CLEANING OF THE BED. 28
3.9 ROLL PADDING REPLACEMENT..... 29
4.1 ELECTRICAL EQUIPMENT 36
4.1.1 ROLL DRIVE..... 36
4.1.2 LIFT BED..... 37
4.1.3 ROLL SUCTION DRIVE. 37
4.1.4 FUSES 38
4.1.5 CONTROL PANEL..... 39
4.1.6 OTHER..... 40

4.1.7 MONAYEUR 41
4.1.8 GASBURNER 42
4.2 MECHANICAL EQUIPMENT 43
4.2.1 ROLL DRIVE. 43
4.2.2 ROLL. 45

PART 5: APPENDIX 45

5.1 INSTALLATION PLAN 46

PART 1 INSTALLATION

1.1 Handeling of the machine.

- Lift the machine.
- Devide the weight so that the machine does not hang crooked.
- Make sure nobody walks under the load..
- Lift the machine carefully and without impacts. Move regularly and without sudden movements.
- Put the load on the ground as soon as possible.
- Make sure there are no obstacles in the way.

1.2 Technical data and dimensions.

		M300/1800	D300/1800
Roll	Diameter Length	300 mm 1800 mm	300 mm 1800 mm
dimensions	Height Width Depth	1110 mm 2255 mm 815 mm	1110 mm 2255 mm 1400 mm
Temperature	Min Max	150°C 185°C	150°C 185°C
Motors	Roll Suction	0.18 kW 68 W	0.18 kW 68 W
Electr. Connection (D curve) Cable section	Mono 230V / 50 Hz	16A 2 x 2.5mm² (L+N) + PE ---L1 + L2 Doesn't works!---	16A 2 x 2.5mm² (L+N) + PE ---L1 + L2 Doesn't works!---
Speed	Min - 25 Hz Max – 50 Hz	0.8 m / min 4 m / min	0.8 m / min 4 m / min
Capacity	Residual moisture 25% Temperature 185°C	60kg	60kg
Vapour outlet	Diameter	60 mm	60 mm
	°C (Ironing temp 185°C)	100	100
	m³/h	150	150
Weight	Kg	350kg	350kg
Packaging	Height Width Depth	1350 mm 2350 mm 850 mm	1350 mm 2350 mm 850 mm
Noise	Decibel	60-65dB	60-65dB
Gas inlet	Pressure	Min. 20mBar	Min. 20mBar
	Diameter	½"	½"
Gas outlet	Diameter	80 mm	80 mm
	°C	Min. 260 (Heat resistance pipe)	Min. 260 (Heat resistance pipe)
Capacity burner	kW	18 kW	18 kW

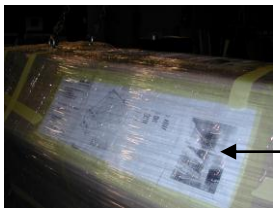
Max. temperature for nomex is 190°C

1.3 Installation.

1. The machine has to be unloaded according the regulations.

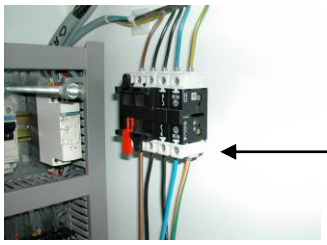
   See 1. Transport of the machine.

2. Remove all packing material such as plastics and cardboard. Clean the bed before heating the machine. Use for this no explosive products.



Packing material.
S. also beige-supplied designs!

3. Electrical connections.



Electrical cable connection:
2 x 2.5mm ² (L + N) + PE (230V/50Hz MONO)
(L1 + L2 Doesn't works. You need a grounding!)

4. Gas connection

Compare the type of gas (natural gas, propane) with the data on the machine and bear the guidelines in mind.
It is important for the gas connections to be set up by an approved specialist to ensure that the installation complies with the standards and guidelines that apply where the machine is installed.
The gas connection must correspond to the type of gas specified on the machine plate.
The gas pressure for natural gas and propane must be between 20 mBar and 65 mBar.
If the pressure exceeds 65 mBar, a gas pressure regulator must be installed upstream of the connection tap.
Also consider the diameter of the gas pipe. The machine connection is ½".
If the distance between the gas meter and the machine is over 10 meters, the use of a gas pipe with a larger diameter is recommended (e.g. 1" instead of ½")

Gas connection: ½"
Gas valve not included, use certified gas valve.

5. Attach and isolate completely the suction pipe! (Temperature min. 100°C for vapour outlet and min. 260°C for gas outlet.).

   Note: *The maximum distance of these pipes is indicated about 5 meters as in enclosed plan. For longer distances one must take a larger diameter (e.g. 125 mm instead of 80 mm or 90 mm.!)*

The vapour outlet must be completely separate by law to prevent the risk of fire.
The vapour outlet should consist of a heat-resistant pipe (min. 100°C).
In order to achieve proper operation, this pipe must always be kept as short as possible and must have as few bends as possible.
If an outlet channel joins a main channel, the angle of incidence must not exceed 45°.
If the distance from the outlet channel is greater than 5 metres, a series fan must be installed further down the outlet channel or the section of the pipe must be increased!
e.g. 125 mm instead of 80 mm.
Insulate both the gas and steam outlet pipes to prevent fire

Note :
Failure to comply with the installation guidelines may lead to counter-pressure in the outlet channel which will impair output and quality.

6. Isolate all lines outside of the machine. Protect hot parts where you can burn yourself by contact.

7. Burner adjustment.

   On startup of the machine on location, burner settings have to be adjusted by an recognized or competent person and be inspected on standards in the concerned region. Before starting the burner, it is necessary to read the enclosed manual of the burner and the gas train. Burner settings also have to be adjusted every 12 months for optimal burning and efficiency, also by a recognized or competent person.
   The burner must be set so it can burn at a capacity of 18kW.
   The gas outlet pipe becomes 260°C and must be isolated.
   There is a hole in the door (side of the burner) where you can check if the burner is working. If the burner is working, then you will see a green light.

8. The machine can be used only in the required industrial surroundings that satisfy the safety and connections rules.

9. The machine is now finished for the work.

PART 2 SERVICE INSTRUCTIONS

2.1 General

- The service life of an ironing machine with a steel ironing bed is approximately 15 years with normal maintenance.
- This is an estimate. It is not binding.
- No compensation may be claimed for a shorter service life.
- Noise level: 60-65 dB depending on speed

2.2 Daily checkpoints

2.2.1 Daily checkpoints before starting

- Check the direction of rotation of all motors.
- Are all safety guards in position and closed?
- Check the functioning of the finger guard and its correct adjustment.
- This means the opening between the finger guard and feed bands must not exceed 15 mm.
- Check the operation of the emergency stop buttons.
- Before starting, make sure that nobody is in a dangerous area.
- Check that there are no extraneous objects between the roll and bed of the ironing machine.
- Check the condition of the padding.
- Also check the condition of the feed bands.
- Clean dust from the machine.
- Check the machine for leaks.

2.2.2 Normal use

- The machine is suitable for ironing all sorts of flat linen such as sheets, drawsheets, towels, pillow cases, handkerchiefs etc.
- The maximum temperature is **185°.**
- The minimum temperature is 150°.
- The padding should be adjusted to the operating temperature (nomex max. 190°C).
- The machine settings for installation, ironing pressure, installation of the padding etc should be in accordance with the regulations described in the manual.
- The machine must be maintained regularly as described in the manual.
- Only spare parts supplied by the manufacturer may be used.
  The manufacturer accepts no liability for defects and accidents due to incorrect use of the machine or spare parts that he has not supplied..
- Do not allow any hard parts to turn between the roll and bed.
- Do not allow any fusible materials to turn in the roll.
- Take account of all safety regulations.

2.2.3 Abnormal use

- Ironing items that are not flat.
- Allowing the machine to run empty (without feeding linen).
- Temperatures in excess of 190°.
- Cleaning the beds with hard materials (can cause irreparable damage).
- Working without taking safety precautions.
- Failure to comply with safety regulations.

2.2.4 Continued risks with the machine - measures to take.

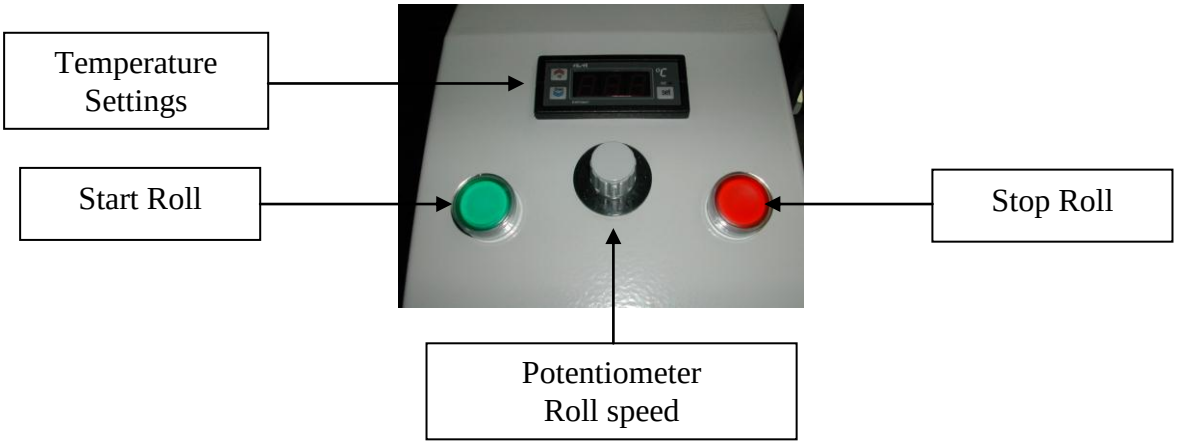
All pipes outside the machine for the roll exhaust and burner exhaust, pose a real risk of burns.
For this reason, all these pipes must be properly insulated and protected against direct contact.

Staff using the machine must be trained in how to handle emergency situations e.g.
how to free someone who is trapped, what to do in the event of a fire, breakdown of the machine etc.

The hot linen emerging from the machine can cause burns. For this reason, it is necessary to wear personal protection such as gloves when handling the linen.

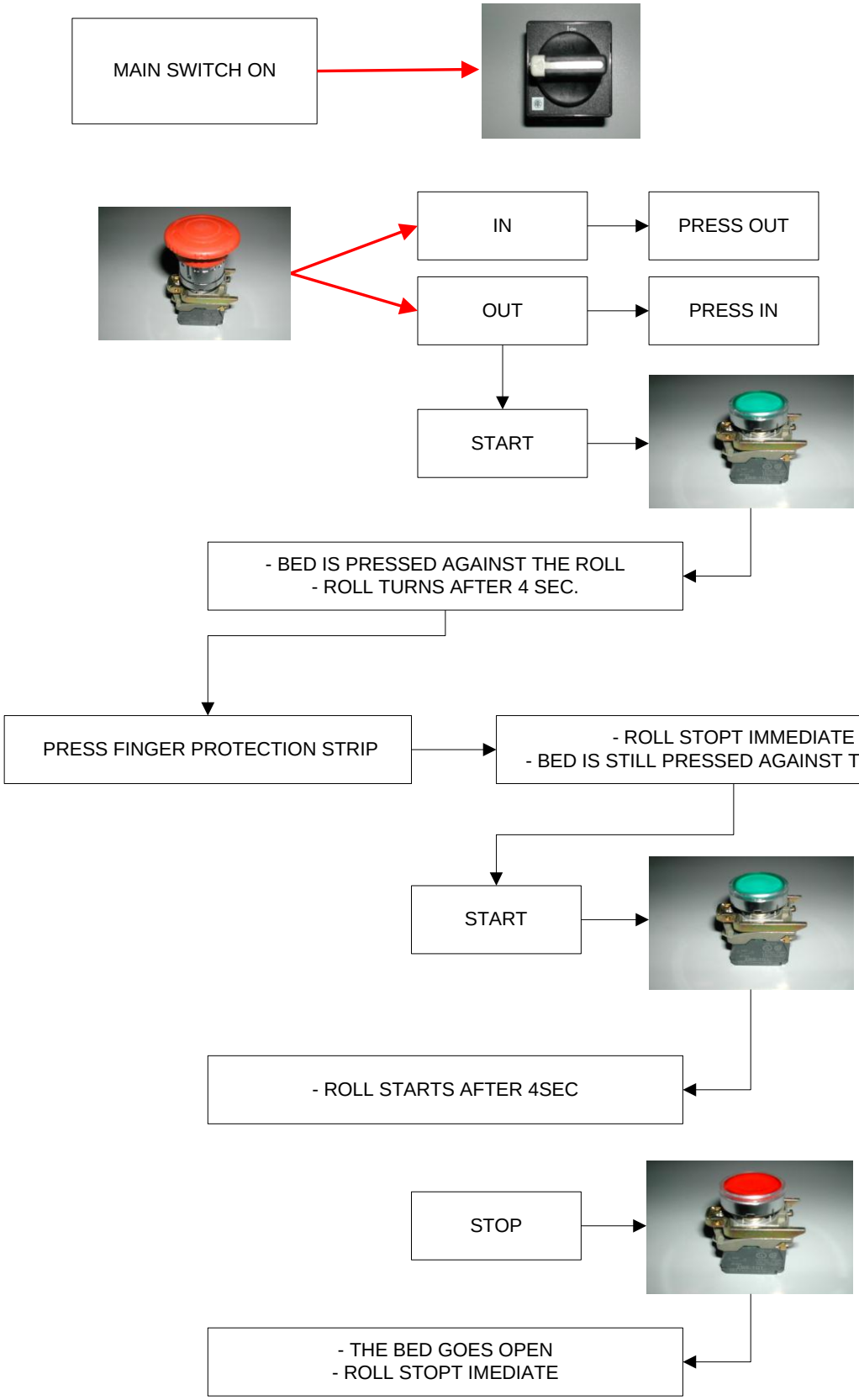
As far as possible, non-flammable materials have been used in the design of the machine.
However, flammable materials will still always be present in the form of the padding, feed bands and the oil in the machine.
However, the greatest risk is posed by dust.
Under certain conditions, dust can create a highly explosive mixture.
Therefore it is essential to clean the machine regularly.
Also create an equipotential link so that no potential differences arise between the machine and the surrounding metal structures to prevent sparkover.

2.3 Control panel



2.4 Operation instructions

2.4.1 Operations instructions



The machine can be trained only used by staff with the necessary physical requirements!

Note :

During the operation of the emergency stop key `S1' all motors as well as the heating of the bed are stopt. For a new start its only possible by turning back the emergency stop key `S1' and again press the start button `S3'

Note :

After you pressed the finger protection strip the bed remains pressed against the roll, it is therefore to recommend the roll to start as soon as possible or stop the machine completely(otherwise felt burns).

2.4.2 Additional points.

- Run a wax cloth though the ironing machine 2 to 4 times a day to wax the bed. If this is not done, the bed will glide less smoothly and static electricity may occur, resulting in poor ironing quality.
- Clean the ironing bed regularly with a special cleaning cloth (available as an option with the machine).

2.5 Security instructions

Dangerous places	What you must not do
- Hot bed	- Do not move with the hands under that the finger protection strip or between the intake belts.
- The entrance of the bed and the roll.	- Attempt no parts to withdraw those already are entered.
- Hot linnen at the exit of the roller.	- Avoid loose clothes, loose hair, bracelets, rings, etc.
- Intake wedge of the intake belts.	- Never start the machine whitout a screening or collateral inspection of the safety borders of the machine
- Drive components.	- It is forbidden to climb on the machine.

Regulations.

- Examine daily the working of the different security safety

- Teach the personnel as to be behaved in emergencies.

- Close loose clothes. Bind loose hair up. No decoration.

- With repair and maintenance: Secure the machine before working on it.

- With repair on parts, carry safety clothes

- Clean the machine only in a cold and switched off condition

- Switch off the engine when working on the machine

- Read the service manual before working with the machine.

- Carry gloves with the treatment of the laundry

- Announce immediate damages

2.6 What to do in emergency situations.

Situation 1: Emergency stop fails

- Stop the machine with the main switch.
- Check the operation of the emergency stop button and the finger guard regularly as part of preventive maintenance.

Situation 2: A person is trapped between the roll and the bed.

- Press the red stop button or the emergency stop button.
- The bed will lower from the roll and the trapped person can be released. Call the emergency services and give first aid.

Situation 3: Turning with the feed bands.

- Press the emergency stop button
- Cut the feed bands.

Situation 4: Fire

- Press the emergency stop button and immediately switch off the power supply.
- Call the emergency services.

Situation 5: Electrocution

- Immediately disconnect from power supply and only then release the person. Otherwise you run the risk of being electrocuted yourself. Give first aid. Call the emergency services immediately.

Situation 6: Broken pipes

- GAS: Close the gas tap immediately. Open all windows and doors.

PART 3: MAINTENANCE INSTRUCTIONS.

3.1 Maintenaince instructions.

Daily:

- Pass a wax cloth (cleaning cloth) through the ironing machine 2 to 4 times a day. (4 times when the linen doesn't enters smoothly the chest, or when there are creases in the linen.) (1 x wax ➔ ± 5min.)

- Clean the machine with a vacuum cleaner or with air pressure. (1 person ➔ ± 10min.)

12 x per year :

- Clean the burner. (1 person ➔ ± 20min.)

4 x per year

- Clean the suction wings of the drive. (1 person ➔ ± 30min.)

2 x per year:

- Check chain and tension of feed bands.

Every year

- Lubricate the chain. (1 person ➔ ± 5min.)

Every 2 years:

- Change thermal oil every 2 year or every 3500 hours. Type: Texaco Texatherm 25 liters. (1 person ➔ ± 6 hours)

Alternative oil:

SYNLUBE	Lubriplate
TRANSCAL	BP Marine
SHELL CASSIDA	Fluid HT

Other:

- Cleaning the chest and changing the roll padding.
  (1 person ➔ ± 5 hours) (2 persons ➔ ± 4 hours)
- If scale occurs on the beds (deposits of water salts at the entrance to the bed), it should be cleaned with the special cleaning cloth that is available.
- Maintenance should be performed in accordance with the enclosed maintenance plan.
- It should be performed when the machine is stopped and cold.
- The manufacturer accepts no liability for defects or accidents due to failure to perform maintenance or poor maintenance or due to the use of spare parts that he has not supplied.

The possible risks of poor maintenance are.

- Rapid wear of sprockets or bearings in the case of insufficient lubrication.
- If insufficiently lubricated, bearings may become hot resulting in a risk of fire.
- If the safety equipment is not checked daily, faults in the machine may lead to serious accidents.
- Waiting too long before replacing the padding can lead to irreparable damage to the bed.
- Dust on the machine can lead to fire and even explosions
- Worn or missing feed bands can cause a risk of fingers or the linen that has been fed in becoming trapped.

3.2 **Troubleshooting guide.**

3.2.1 The machine does not reach temperature after pressing the start button.

Possible cause.

A. Contactor K2 failed.
B. No power
C. Main switch broken
D. Emergency stop button pressed.
E. Temperature safety failed
F. Fuses failed.
G. PT100 failed
H. Zelio failed
E. No gas.
F. Temperature safety engaged.
G. Air in the gas pipes.

Solution.

A. Reset or replace contactor K2.
B. Examine current suply
C. Replace main switch
D. Deactivate emergency stop button.
E. Reset temperature safety S8.
F. Reset or replace fuses.
G. Replace PT100
H. Replace Zelio.
E. Check gas supply.
F. Press gas ignition safety.
G. Bleed gas pipes.

3.2.2 Machine is at temperature but ironing bed does not close

Possible cause.

A. Push button is defective.
B. Cylinder defective.
C. PLC defective (Zelio).

Solution.

A. Replace push button
B. Replace Cylinder.
C. Replace PLC

3.2.3 The ironing bed closes but the roll does not turn

Possible cause.

A. Finger guard pushed.
B. Frequency control is defective.
C. Contact pressure too highly
D. PLC defective (Zelio)

Solution.

A. Check or replace contact (FDC2) .
B. Replace frequency control.
C. Adjust contact pressure
D. Check or replace PLC.

3.2.4 Roll suction does not work.

Possible cause.

A. Motor defective
B. Contactor K1 defective.
C. Fuse F4 defective
D. PLC defective (Zelio)

Solution.

A. Replace drive.
B. Replace contactor K1
C. Replace fuse F4
D. Replace PLC

3.2.5 No control voltage.

Possible cause.

A. Transfo defective
B. Main switch detective.
C. Fuse detective.

Solution.

A. Check op replace the transfo.
B. Check or replace the main switch
C. Check or replace the fuse

3.2.6 Creases in the linen.

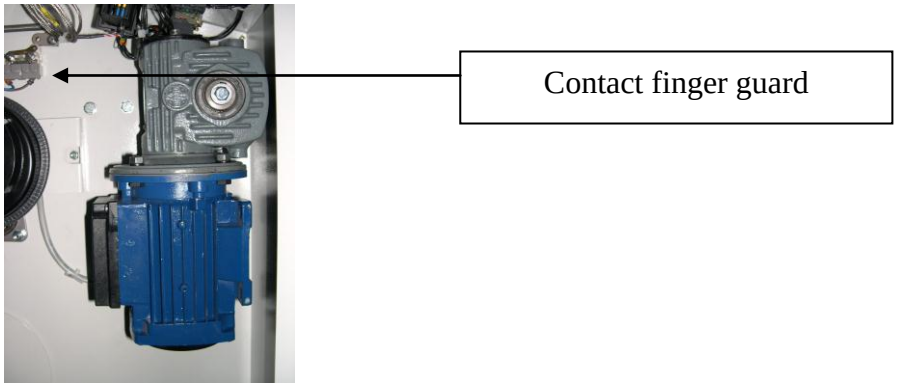
Possible cause.

A. Temperature of the ironing bed too low (below 150°C)
B. Ironing bed is very dirty.

Solution.

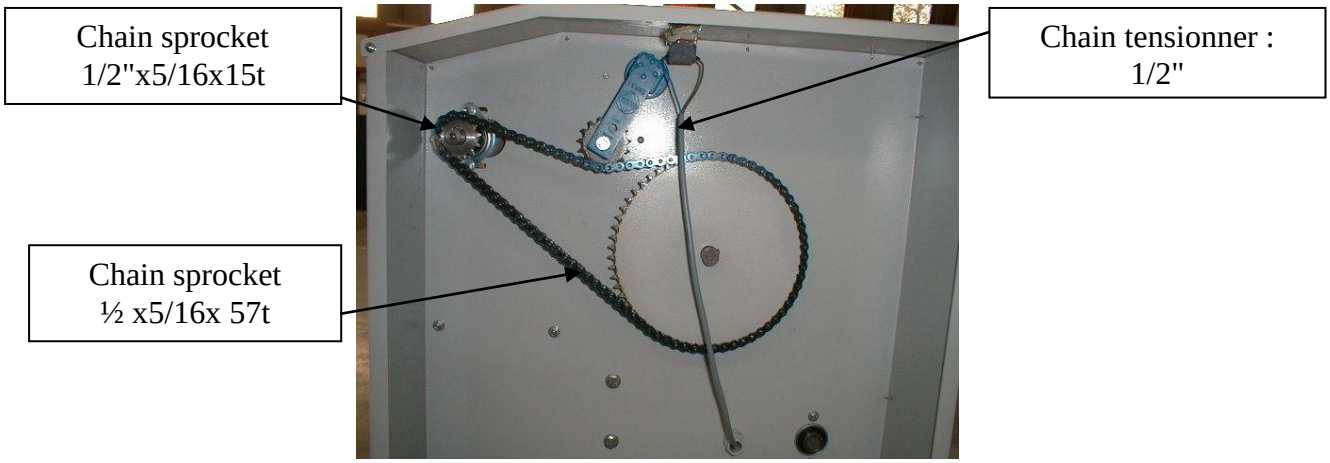
A. Set higher operating temperature (Max. 185°C)
B. Clean and wax ironing bed.

3.3 Adjustment off the contact.

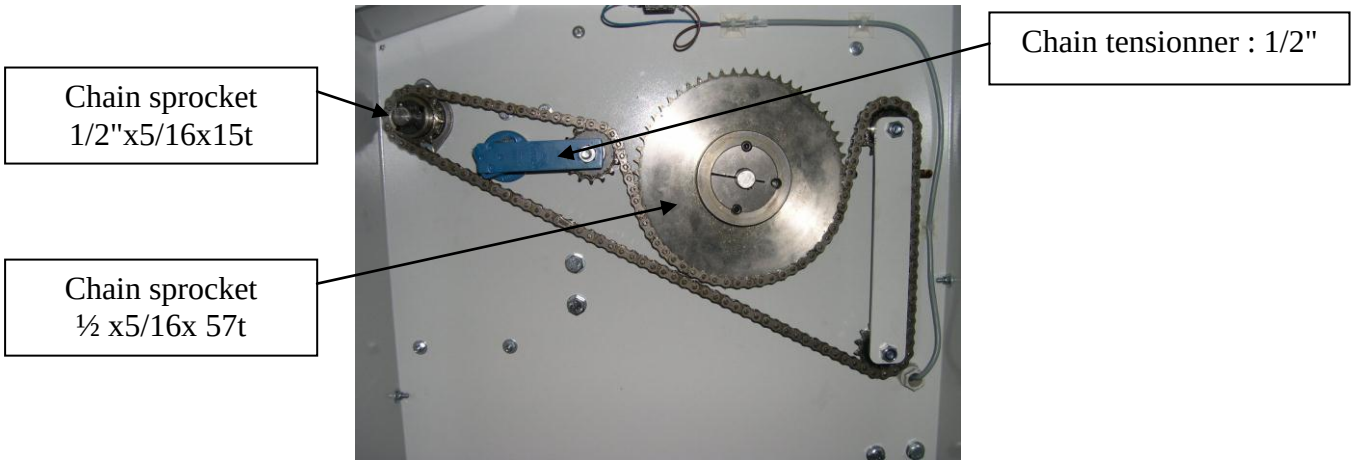


3.4 Drive feeding belts.

3.4.1 M300



3.4.2 D300



3.5 Temperature settings.

Regulation of the digital temperature meter

WARNING !!!

The temperature can be adjust to 190°C, if, by manufacturing a higher temperature is set , that will cause either physically or materially damage, the manufacturers is not responsible for the damage.

Adjustment off the temperature:

Press at the same time the key 3 and key 2 yo adjust the temperature, now you the established temperature when you warm up the machine.

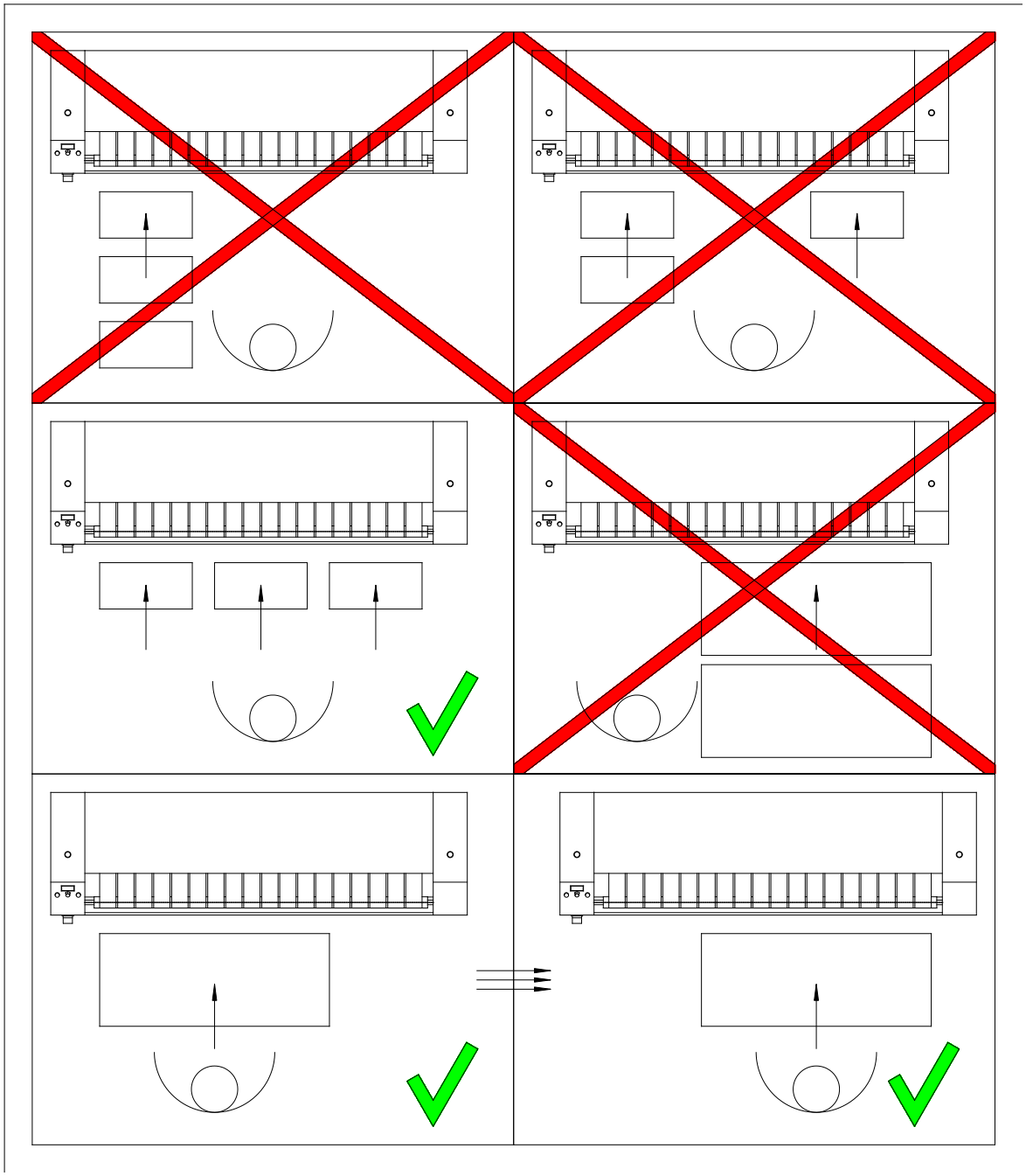
To changes the nature of the entities pres the key 3 or key 4, confirms thereafter with key 2.

To changes the nature of the hundreds pres the key 3 or key 4, confirms thereafter with key 2.

To changes the nature of the thousands pres the key 3 or key 4, confirms thereafter with key 2.

In order to regulate the adjusted temperature hold the key 2 at the same time press the key 3. Then release both keys and the adjusted temperature is stored.

3.6 How to put in the linnen on a M300 – D300.

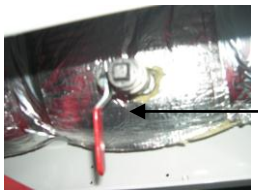


3.7 Thermo-oil change M300 – D300

Note : The exchange of the thermal oil may only happened if the oil is cold. (approx. 20 ° C)

1. Shut down the machine with the main switch..

2. Turn the stop of the valve loose

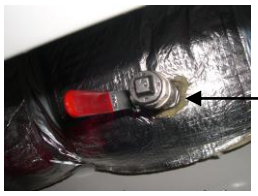


3. Turn the valve open and let all the old oil out of the system in a bucket or barrel

4. Remove the plug above on the bed so that air can fil in the bed an all the oil can escape.

5. Fill the container with oil with a pump under the container. Fill the container with oil, so that the ventilation hole overflows.

6. Remove the pump and the oil and ceases 1.5l oil of the system so that the machine does not overflow at warming up.



7. Examine whether all openings are free of the teflonshoses. If the case is not, these must be replaced!!!!
8. Clean up the bed and the expansion tank and examine that everything is reattached.
9. Turn on the main switch on

10. examines the machine for leaks at a temperature of 40°C. If there is a leak, then solve first of all the leak before continue working with the machine.
    Note : Be careful that you do not burn yourselves during the implementation of this work!!

    If there are no leaks, it's possible to warm the machine up further. Do this in the steps of 20 degrees. If you reach 100°C, you must watch out for possible calmly cooked condense in the oil. As soon as you reached the point of 110°C, you can go to 185°C.

3.8 Cleaning of the bed.

- There is no doubt that the life of all ironer clothing depends largely on the condition of the beds. A clean smooth bed increases the life of any clothing and improves the quality of the ironed linen.

A typical ironing problem like creasing on the leading edge is almost always due to a dirty bed. Though not always visible residuals and salts will build up on the bed surface.

- Before cleaning the bed the causes of the deposit should be located. These are usually to be found in the washing process :
  - too hard water (lime deposit)
  - PH value higher or lower than the ideal 6.5
  - too high rest moisture (too much water to evaporate)
  - bad rinsing (soap residuals).

- Cleaning of the bed :

1. When there is only build-up at the bed inlet, it can be removed by hand and with Scotch-Brite (only when bed is cold).

2. When there is build-up on the whole bed:
   - Drop the bed.
   - Let the machine cool down (100°C).
   - Open the scrapers.
   - Wrap a cloth around the roll which will protect the padding against dust.
   - Wind strips of Scotch-Brite around the rollers in wide lanes.
   - Push the slightly heated (100°C) bed against the roll and turn the roll for 2 to 3 hours.
   - Keep watching to make sure the Scotch-Brite does not get loose.
   - Remove all dust, then the Scotch-Brite and the cloth.
   - Restore the original hydraulic pressure.
   - Heat the bed and pass a wax cloth to grease the bed.

* Wax should be applied regularly but then sparingly (not too much) so as not to clog up the suction clothing. Always use the cloth and never apply wax between roll and bed. It may cause spots in the ironed items as then the padding takes the wax.

Attention: On oil heated ironers (temperatures higher than 185° C) too much wax constitues a fire hazard.

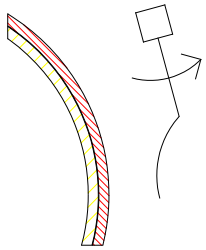
- For long time storage (seasonal work) prepare machine as follows :
  - let the padding dry out
  - Pass a wax cloth with much wax to prevent rusting
  - keep carrying out the annual maintenance (oil change, greasing...).

Before starting the ironer again : clean the bed!

3.9 Roll padding replacement.

If the ironing machine is delivering reduced output and poorer ironing quality after a period of time (1 year), this means the padding is worn.
The old padding is easily removed using a reversing switch located in the electrical connection box.

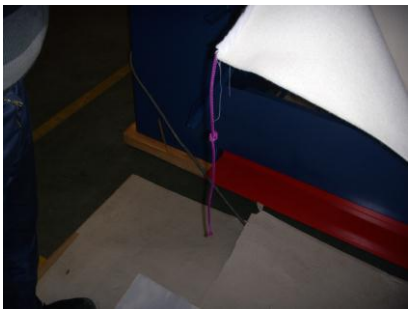
- First clean the bed. (See cleaning of the bed).
- Open the bed. (machine at rest)
- Disassemble the covers.
- Cut or detach the cords on the side of the padding.
- Turn the scrapers away of the padding as shown in the drawing.



- Let the roll turn backwards (with the switch) and take the padding so it rolls of the roll. Note that the scrapers don't falter in the padding, and that the padding doesn't damages the feedingplate.
- Check dimensions of the new delivered padding. (length, width)

Mod.300	Padding	
	Ø Length (mm)	Ø Length (mm)
1800	1900	1900

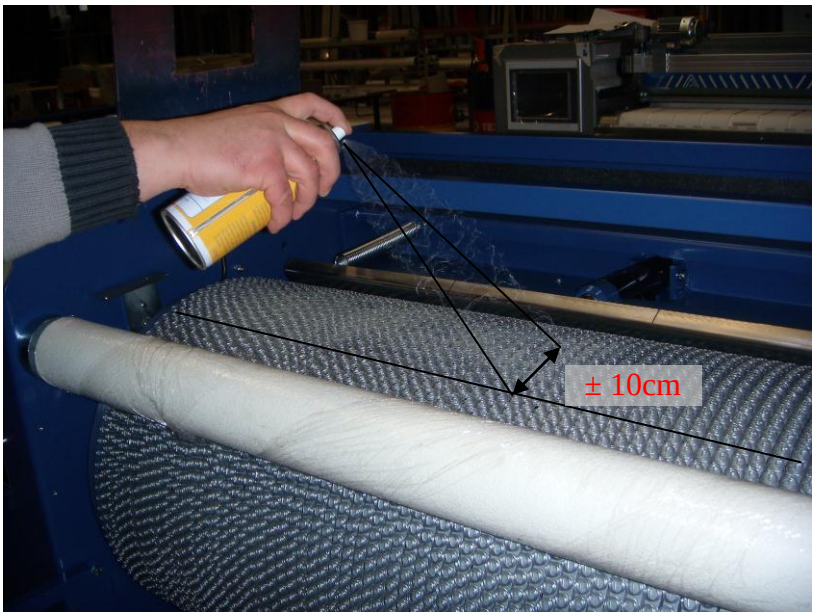
- Put a knot in the rope at both sides, so the rope can't get out of the padding.



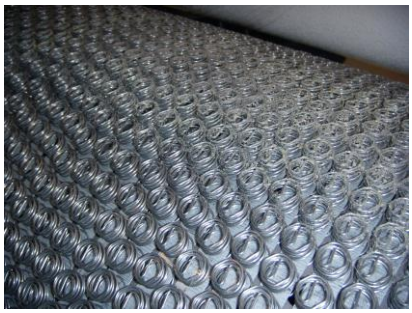
Knot in the rope (1 knot)

- Set the temperature at min. 120°C.

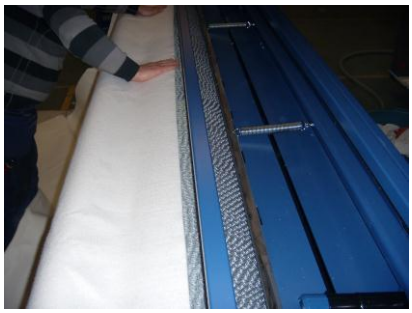
Glue (type Vitabond VB100)

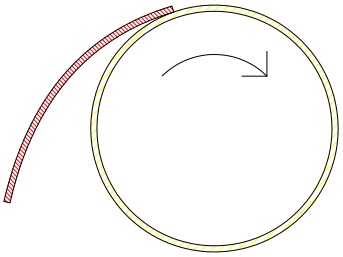


Spray glue over the entire length with a width of 10cm.



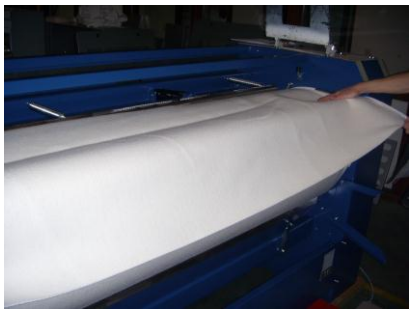
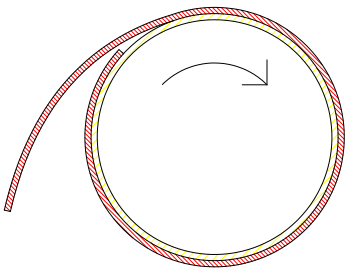
- Put the padding straight on the roll + push the padding against the roll. Place the padding on the roll with the ropes at the bottom.



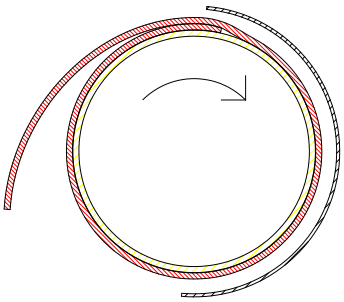


- Lower speed (potentiometer) , then let the roll turn with the switch in the power box (clockwise) (Counter clockwise for Muraal).

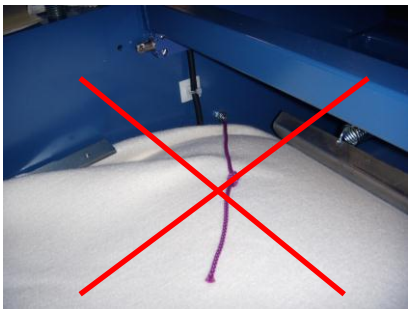
- While turning, make sure the padding is tensioned.

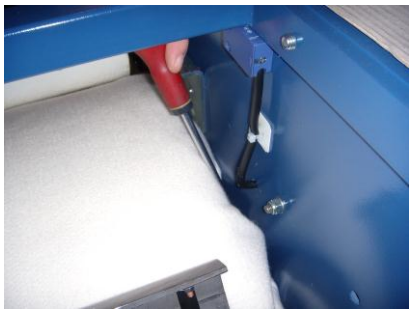
- When the padding enters the bed, stop the roll.(position switch “0”). Close the bed and let the roll turn. You can do this by pushing the start button. Check that nothing rolls bad or keeps faltering. If you want to stop the roll, push the fingerscreen or the footpedal. (option)



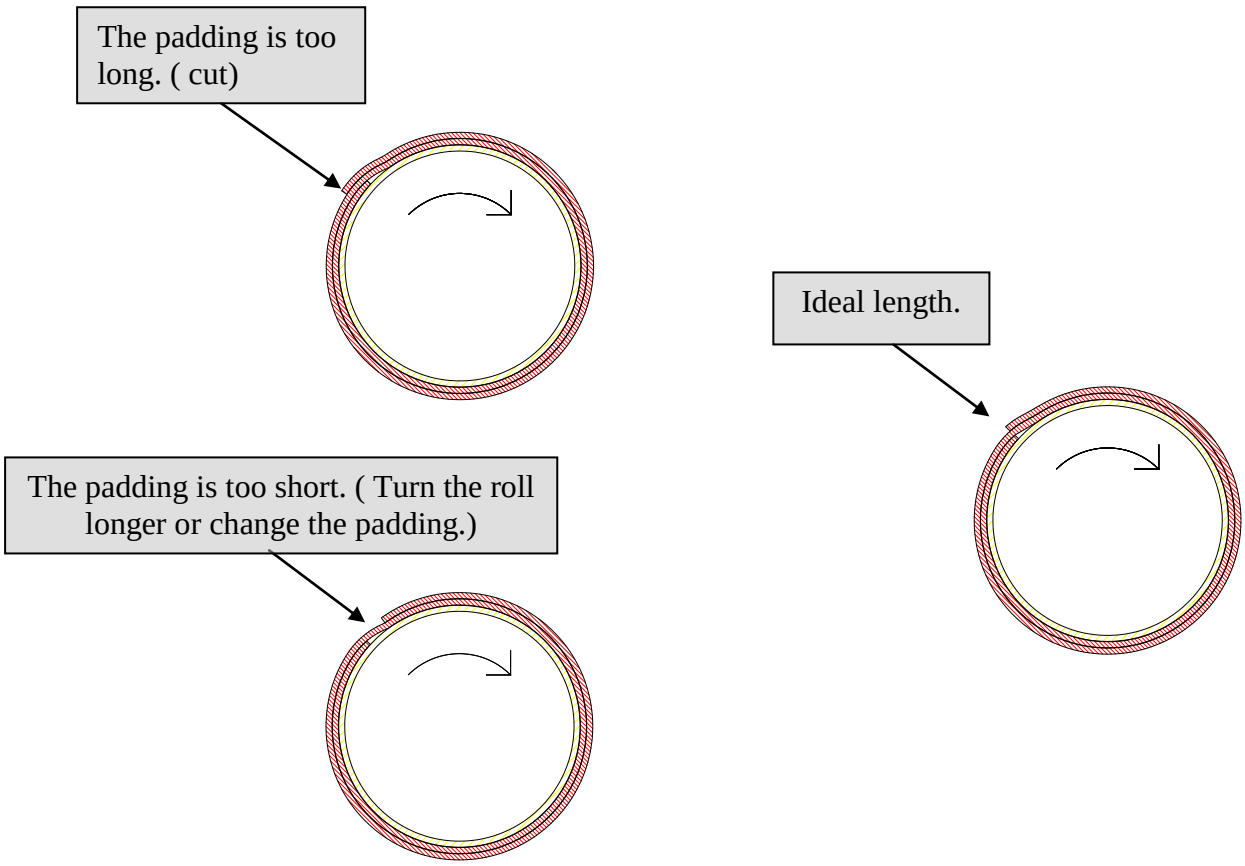
- Make sure the ropes are not on the padding when the roll turns.



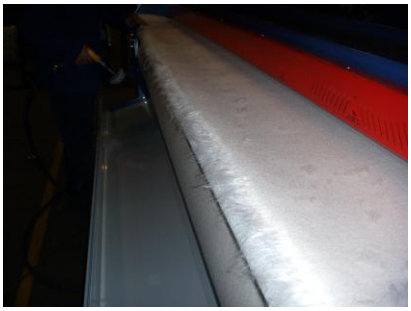
- Press the sides with a stump object. That prevents that something should halter / hang.



- When the padding is completely on the roll (2 turns), let the roll turn for 15min. at a temperature of min.120°C and a higher speed.
Let the roll turn when the padding is too short (max. 1 hour) If the padding is too long, stop the roll and cut the padding. (Cut when 3rd turn begins.) You can feel where the padding is laying double. It is recommended to check the length of the padding after 1or 2 weeks and if necessary cut the padding.



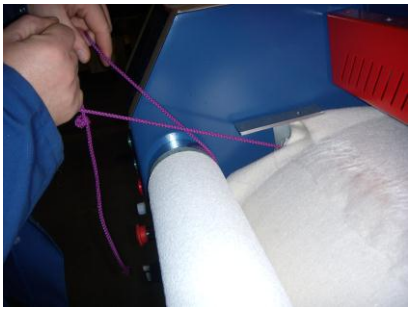
- Brush the padding (positioning of the padding by turning the roll with the switch). Make sure the bed is open. The brushing happens best with a steel brush or a drill with a radial steel brush. Put something under the padding, like a wooden plank. So you can't damage other things.



- Then use the steel brush to create a smooth transition.

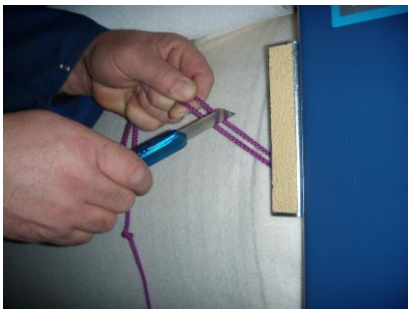
- Turn the roll.

- Stop the roll, and make 3 knots in the ropes at the sides of the padding. (Tighten the knot as hard as possible.)

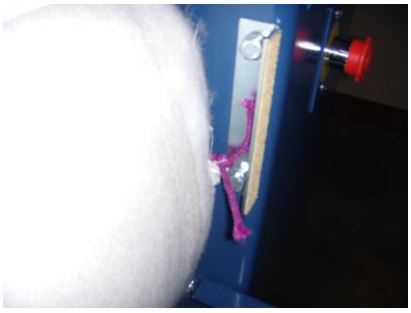


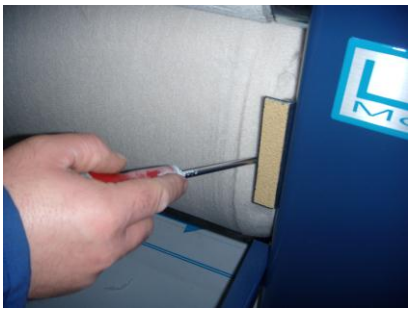
Take the ropes.

Make 3 knots in it.



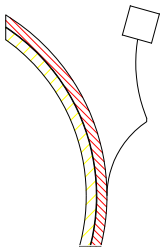
Cut the ends.



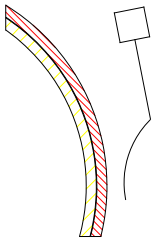


Push het ends and the knots back with a stump object.

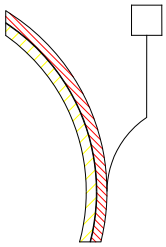
- Let the roll turn and place the scrapers back in the correct position.



Too much pressure.



Too little pressure.



Good (slight pressure)

- Mount the covers.
- If there are no comments, the padding is ready for use.

Never turn the roll whit pressure on the bed when the bed is cold!

4.1 Electrical equipment

4.1.1 Roll drive.

Name	Discription	Type	Order No	Picture
M1	Rolldrive	Lenze M 045 FL 1/60 C0 P B14 B B3	E.NV.0222	
U4	Frequency inverter	LENZE SMD 0.25KW	E.MK.0252	
R4	Speed potentionmeter		E.ML.T110	

4.1.2 Lift bed

Name	Discription	Type	Order No	Picture
M3	2 x Cylinder	LA12 1000 - 11002410	L.CE.0750	
U2	Flow corrector	SA14 – 24 – 7A	L CE 0749	

4.1.3 Roll suction drive.

Name	Discription	Type	Order No	Picture
M2	Rolldrive	G2E120DD7 012	2LT.YA.0980	
K1	Relay	Relay omron G2RV-SLV700 24 vdc	E.RK.W160	

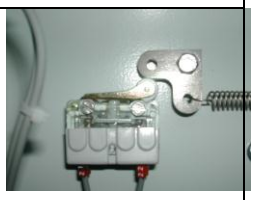
4.1.4 Fuses

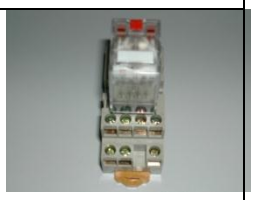
Name	Discription	Type	Order No	Picture
F1	Main fuse 16A	2P 16A D	2LE.ZO.5216	
F2	Primairy fuse 2A	GB2 DB07	2LE TB DB07	
F3	Secundairy fuse 4A	GB2 CB09	2LE.Z0.5909	
F4	Suction fuse 2A	GB2 CB07	2LE TB CB07	
F5	Frequency inverter 5A	GB2 DB10	2LE.TB.DB10	
F6	Burner 2A	GB2CB07	2LE.Z0.5907	

4.1.5 Control panel.

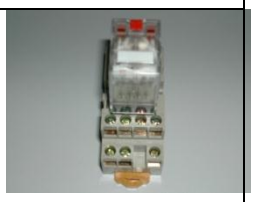
Name	Discription	Type	Order No	Picture
S1 - S2	Emergency	ZB4 BS54 + ZB4 BZ102 (= contact NC)	E.SD.Z215 + E.SD.Z231	
S3 (H2)	Push button ‘start’ (green)	ZB4BW0B33 ZB4BW333	E.SD.Z223	
S4 (H1)	Push button ‘stop’ (red)	ZB4BW0B42 ZB4BW343	E.SD.Z224	
U3	Temperature regulation	Comeco RT 38	E.V3.1058	

4.1.6 Other.

Name	Discription	Type	Order No	Picture
Q1	Main switch	25A 2P	E.SV.0100	
T1	Transfomer	'Elliwell' 220V – 12V – 8V	E.V3.1100	
T2	Transfomer	'TE' ABL7 RE 2405	E.02.0025	
FDC2	Contact finger guard	XCI ZP 2105	E SA T010	
☐ FDC4	Footpedal	XPE-M110	E.SA.H051	
S8	Temperature security	T 220°	E.V4.0120	
S9	Turn button for padding	ZB4 BD3 ZB4 BZ102 ZBE 101	E SD Z205 E SD Z231 E SD Z210	

B1	Temperature sensor	PT100 S/1 127 Dia. 6 EL= 50	E.O3.0020	
A1	ZELIO	Z.Z2.0026	SR2A101BD	
K2	Relay (burner)	RXN41G11B7 4P 24V DC	2LE.RK.T011 E.RK.O344	

☐ 4.1.7 Monayeur

Name	Discription	Type	Order No	Picture
U4	Temperature readout	Comeco RT 38	E.V3.1058	
B2	Temperature sensor	PT100 S/1 127 Dia. 6 EL= 50	E 03 0020	
K3 – K4	2 x Relay 2 x Relay footpiece	RXN41G11B7 4P 24V DC	2LE.RK.T011 E.RK.O344	
U6	Monayeur	MP1500	050.E.5004	

H3	Beeper	24V DC/AC	Z.Z0.0008	
K5 – K6	Relay, Omron 24 VDC	G2 RV – SL700	E.RK.W160	
T1 – T2	2 x Timer	Tijdrelais Omron H3DE-M1 24V 0.1-120H	E.T3.0010	
H4	Yellow light	XB4-BVB5 / BV053	E.LT.2042	
	Support for lamp.	-	-	

4.1.8 Gasburner

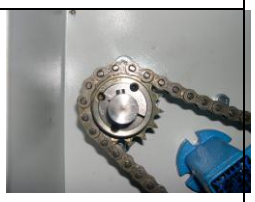
Désignation	**Discription**	**Type**	**N° de commande**	**Photo**
Burner	RIELLO 40 GS3		2LT.OE.4330	
Gas multi blok	'DUNGS' MB-DLE403 B01 ½ "		2LT.OE.4350	

Gas pressure valve	"DUNGS" NB50 A2-UB50 A2		
Air pressure valve	"DUNGS" L6W3A2		
Flexible	Stoomsl Sisa teflon 1/2" x 540	V.L0.4054	

4.2 **Mechanical Equipment**

4.2.1 Roll drive.

Name	**Discription**	**Order No**
Roller bearing GSH 25 RRB Ø25 Left side at the motor.	T.KW.0050	
Flat flange housing PFL 52 Left side at the motor.	T.KU.CA52	
Bearing GSH20RRB Ø20 Both sides ironing roll Right side feeding roll	T.KW.0040	
Bearing body flange PFL 47 Both sides ironing roll Right side feeding roll	T.KU.CA47	

- Chain sprocket ½" x 5/16" x 57 t - taperlock 2012 – dia 20	T.U4.8571 T.P8.2020	
- Chain sprocket ½" x 5/16" x 15 t - taperlock 1008 – dia20	T.U4.8151 T.P8.1020	
Chain tensionner ½"	T.US.4803	
Chain tensionner sprocket ½" x 5/16" x 15t	T.US.O012	
Chain ½" x 5/16	T W1 0050	

4.2.2 Roll.

Name	Discription	Order No	Picture
Springs	Springpress type Z vz 11mm L.1200m	2LT.H0.0011	
Linnen scraper 18st.	Linnen scraper	S.RP.0002	
Feeding belts	88 x 500 (18 st) (M300) 88 x 510 (18 st) (D300)	050.T.2500 050.T.2550	
Padding	Nomex 800 gr/m²	050.002.3018NF8	

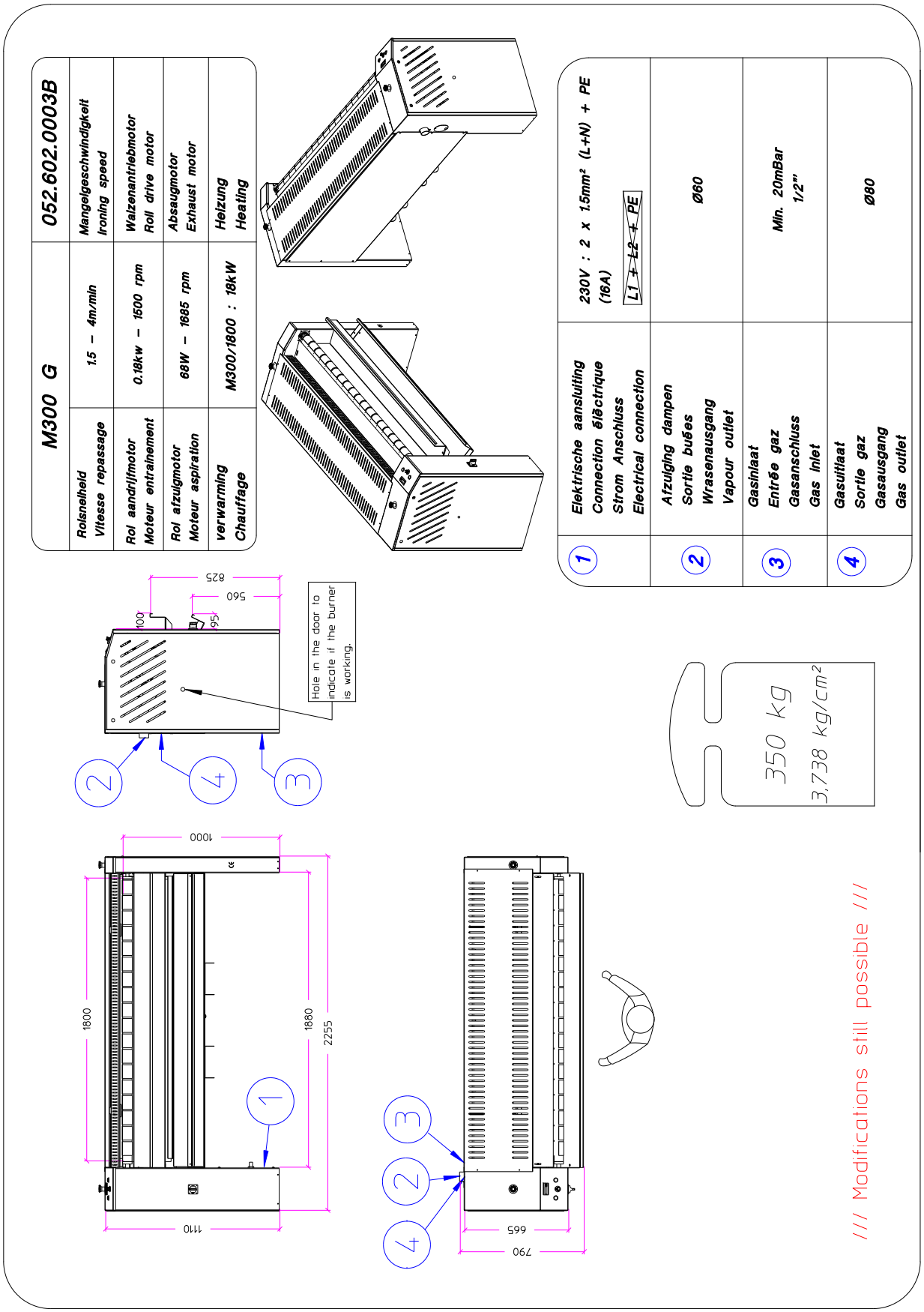
Part 5: APPENDIX

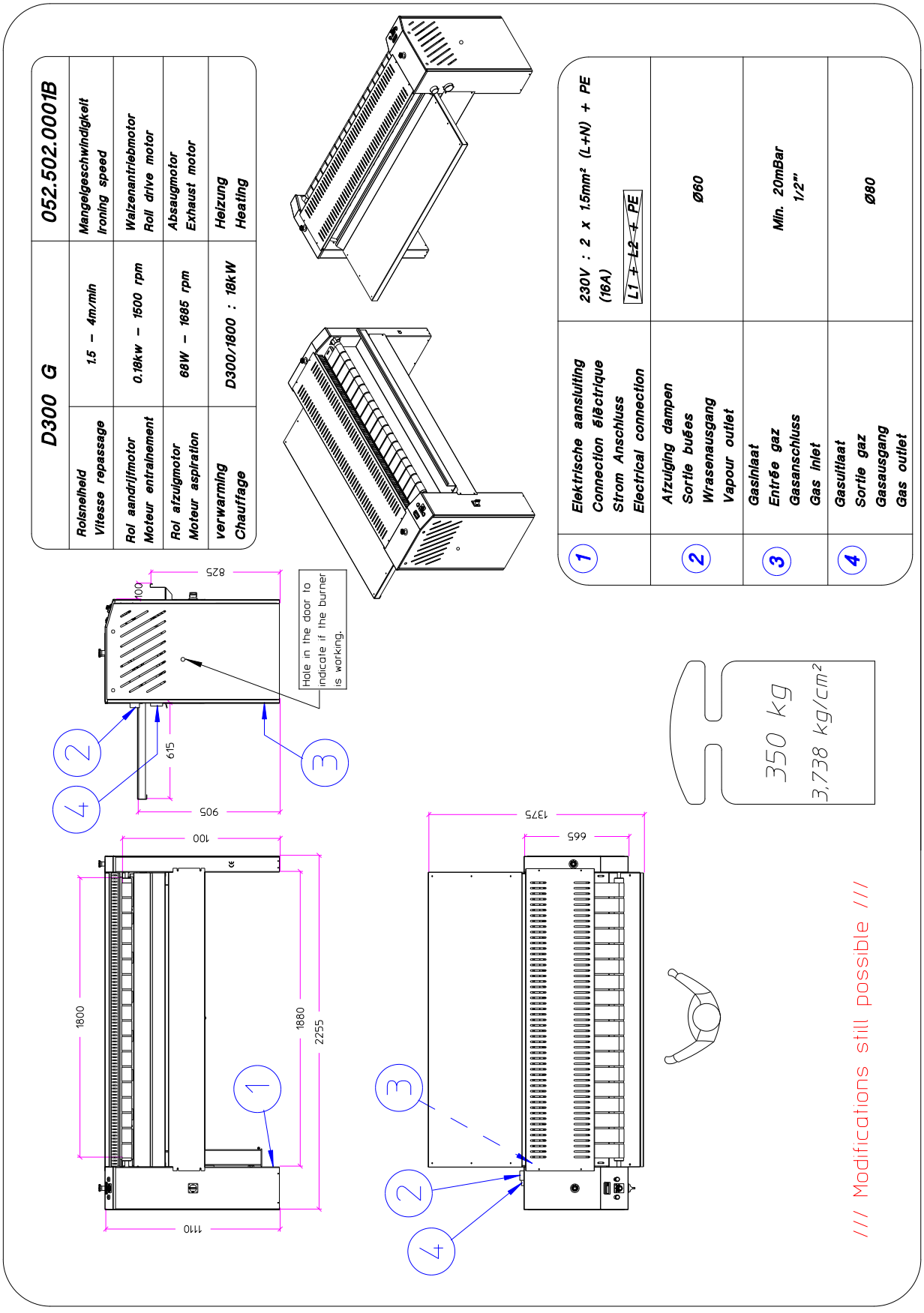
5.1 Installation plan

5.2 Zelio programm

5.3 Electrical diagram

5.1 Installation plan


M300 G
052.602.0003B
Rolsnelheid / Vitesse repassage — 1.5 – 4m/min — Mangelgeschwindigkeit / Ironing speed
Rol aandrijfmotor / Moteur entrainement — 0.18kw – 1500 rpm — Walzenantriebmotor / Roll drive motor
Rol afzuigmotor / Moteur aspiration — 68W – 1685 rpm — Absaugmotor / Exhaust motor
verwarming / Chauffage — M300/1800 : 18kW — Heizung / Heating
1 Elektrische aansluiting / Connection électrique / Strom Anschluss / Electrical connection — 230V : 2 x 1.5mm² (L+N) + PE (16A) L1 + L2 + PE
2 Afzuiging dampen / Sortie buées / Wrasenausgang / Vapour outlet — Ø60
3 Gasinlaat / Entrée gaz / Gasanschluss / Gas inlet — Min. 20mBar 1/2"
4 Gasuitlaat / Sortie gaz / Gasausgang / Gas outlet — Ø80
825
560
100
55
Hole in the door to indicate if the burner is working.
350 kg
3,738 kg/cm²
1000
1800
1880
2255
1110
665
790
/// Modifications still possible ///


D300 G
052.502.0001B
Rolsnelheid / Vitesse repassage
1.5 – 4m/min
Mangelgeschwindigkeit / Ironing speed
Rol aandrijfmotor / Moteur entrainement
0.18kw – 1500 rpm
Walzenantriebmotor / Roll drive motor
Rol afzuigmotor / Moteur aspiration
68W – 1685 rpm
Absaugmotor / Exhaust motor
verwarming / Chauffage
D300/1800 : 18kW
Heizung / Heating
1 Elektrische aansluiting / Connection électrique / Strom Anschluss / Electrical connection
230V : 2 x 1.5mm² (L+N) + PE (16A)
L1 + L2 + PE
2 Afzuiging dampen / Sortie buées / Wrasenausgang / Vapour outlet
Ø60
3 Gasinlaat / Entrée gaz / Gasanschluss / Gas inlet
Min. 20mBar 1/2"
4 Gasuitlaat / Sortie gaz / Gasausgang / Gas outlet
Ø80
Hole in the door to indicate if the burner is working.
825
100
615
905
1800
1880
2255
1110
1375
665
350 kg
3,738 kg/cm²
/// Modifications still possible ///